

AMATEUR-BUILT AIRPLANE

MAKE & MODEL RV 6A

Serial No. 60513

Registration No. N468AC

DESCRIPTION

Wing Span 23' 0"

Wing Area 110 ft²

Length 19' 9"

Empty Weight 1068

Gross Weight 1800

Limiting Speed (Vne) 218 Kts

Built By: Allen Checco

Date 2004

Original Design By: NA

Built From Plans By: NA

CONSTRUCTION MATERIALS

WINGS: Spars _____ Ribs _____ Cover _____
FUSELAGE: Longerons _____ Formers _____
Firewall _____ Stringers _____ Cover _____
TAIL: Spars _____ Ribs _____ Cover _____
LANDING GEAR: Legs _____ Axles _____ Wheels _____
EXTERNAL BRACING: STRUTS _____ WIRES _____

FINISHES

Finish Dope or Paint _____ Metal Finish (Skin) _____

SERVICING INFORMATION

Fuel Grade 100LL Gallons 38 Type & Grade Engine Oil 20W-50
Brake Fluid MIL-H-5606A Oleo Fluid NA Tire Pressure 25

REMARKS

Installed EKT with new batteries. Takes 8 D cells. Allen

I certify that I have built this aircraft for my own education and recreation, and I have inspected it fully. I am the manufacturer, and I consider it eligible for issuance of an Experimental Airworthiness Certificate for the purpose of operating amateur-built aircraft under provisions of FAR 21.191(g).
Allen R. Chan

I find that this aircraft meets the requirements for the certificate requested and have issued a ~~(Standard)~~ (Special) Airworthiness Certificate.

Next inspection Due by: 6/06/2006

Amateur-Built

Dated June 6, 2005

Signed John P. Huber
GL03

Date	From	To	Hours	Min.	Pilot
6/7/05					
6/10/05					
6/12/05					
6/15/05					
6/18/05					
			32	0	
			30		
			32		
			Total Forward		
			Total to Date		

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REMARKS

Replaced wire connection on Com and transponder. S swapped dew
 trim dials wire and orange/blue signal wires. Flush
 gascolator and hose to engine fuel pump. Shortened control cable
 2 1/4". Adjusted throttle cable to hit idle stop. Added heat
 shield to exhaust pipe and fuel line. Adjusted alternator trim screw
 downwards. Installed Anderson clamps on fuel pressure line and starter
 lead. Turned inboard front baffles. M. Chan 183 38 5803
 Installed Dupon software ver 0.13.00

Installed nose wheel pivot and lining M. Chan 183 38 5803
 Installed CAT and cool heat temp. inst. Increased nose wheel to
 35 psi. M. Chan 183 38 5803

Removed nose wheel. Cleaned and greased bearing. Reinstalled. M. Chan 183 38 5803
 added 1 qt Phillips 66 20W-60 M. Chan 183 38 5803

REMARKS

I certify that the prescribed flight test hours have been completed and the aircraft is controllable throughout its normal range of speeds and throughout all maneuvers to be executed, has no hazardous operating characteristics or design features, and is safe for operation. The following aircraft operating data has been demonstrated during the flight testing: speeds: V_{SO} 53 Kts, V_x 65 Kts, and V_y 95-90 Kts, and dry weight 1068 lbs and CG location 69.77" at which they were obtained. All items installed wheels, gear, replace com/ ¹⁸³⁻³⁸⁻⁵⁸⁰³ _{throughout exterior} cables. Repaired GPS antenna cable. ^{183 39 5803}

Date	From	To	Hours	Min.	Pilot
8/24					
8/8/05					
8/27					
9/1/05					

Total Forward

Total to Date

REMARKS

Installed gas log firing. Speed increased to better flow Vov's
diesel. MChen 183-385803

Installed air cooler door with cockpit cable assembly. Max temp
195°F OAT 68°F. Installed slider tip up switch. MChen 183-385803

Installed lower intersection fanny. MChen 183 385803

Installed new slider tip up brackets. MChen 183 385803

Replaced right white light and stroke globe. MChen 183-385803

Date	From	To	Hours	Min.	Pilot
10/24					
11/23					
12/18					
1/22					
Total Forward					
Total to Date					

REMARKS

Replaced EPS cable, inspected central drainage under floor
Repair flap motor sticking AlChen 183 33 5903

adjusted canopy rail, installed nose gear stiffener AlChen 183 35 500

Installed weather stripping on canopy and baggage compartment
seal. AlChen

Refitted cowling. Repaired right step cracked metal. AlChen
Fabricated engine cooling plenum. 183 38 5002

REMARKS

removed wheel ports, fins, canopy, ailerons for painting.
 This aircraft was cleaned, etched and alodined. Then primed with
 epoxy primer and painted with polyurethane paint. Delfleet Rotterdam
 White, Delfleet Gold 211400, Delfleet green met 414390 and inson
 blk met 44494. Painted by Woodlark refinishing at Gardnuch airport.
 Install wheelports, fins, canopy, ailerons. Modified engine baffles
 for better clearances. AR Chan 183 385803

Installed rudder trim tab. Now slight left in cruise - $\frac{1}{16}$ ball
 was $\frac{1}{32}$ ball right
 Installed manual aileron trim. Test flight - need stronger
 spring on right to center handle. AR Chan

Date	From	To	Hours	Min.	Pilot
6/9/06			188		
6/15/06			208		
7/9/06			223		
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REMARKS

Added $\frac{1}{2}$ " brake fluid, Oil changed, air filter cleaned, gascolator cleaned. I certify that this aircraft has been inspected on 6/9/66 in accordance with the scope and detail of appendix D to FAR 43 and found to be in a condition for safe operation.
Allen R. Chason 183 38 5803 repairman

Replaced right main tire and tube due to flat on landing
JTA Allen 183 38 5803

Cut off $1\frac{1}{2}$ " from cowl exit to improve cooling. Also added stiffener to cowl plenum. Added cable cushion clamps for wires under cowl.
Allen 183 38 5803

REMARKS

Replaced battery 400389 with 40147841 Concord RG-25X1

MCham 183-38-5803

Replaced cowl hinge pins. Crimped inboard cable turn hinge to prevent pin from moving outboard.

MCham 183-38-5803

Removed/replaced left and right aileron bell crank inspection covers. Completed inspection of aileron control linkage. OK

MCham 183-38-5803

Checked airspeed cal mesh - 6 until 120kt then on

Dyno - 5 until 110kt then 0

replaced front elbow inside cockpit on fuel line

Date	From	To	Hours	Min.	Pilot
10/8			275		
11/12			282		
12/26			293		
1/19			301		
1/20					
4/21					
Total Forward					
Total to Date					

REMARKS

Installed ~~sl~~ seat heater, adjusted carbon trim and acision
stick boots MChm 183 38 5803

Reconnected blue/white wire on elevator trim.

Cured flexing. MChm 183 38 5803

Installed Tundra Signflight II VS autopilot and
Dynon CAT and remote magnetometer

Replaced left main right main tube, M
MChm 183 38 5803

Drilled holes in main wheel ports to check air pressure.
All tests at 40 psi MChm 183 38 5803

Added wsg wsg amount to take out landing light. MChm
183 38 5803

Date	From	To	Hours	Min.	Pilot
7/1/07			373	0	
<p>— Blue Sky Aero, Inc. 815-941-0063 blueskyaero.com</p> <p>— August 4, 2007</p> <p>— Balanced propeller/engine combination in accordance with ACES</p> <p>— Systems Publication 1000-OM-01 Guide to Propeller Balancing.</p> <p>— Using ACES systems Model 2020. Initial ips = .31 finl ips= .03.</p> <p>— <i>Alan Shackleton</i> Alan Shackleton</p> <p>— 2710518 A+P / IA</p>					
8/27			400		
10/4			449		
Total Forward					
Total to Date					

REMARKS

I certify that this aircraft has been inspected on 7/1/07 in accordance with the scope and details of Appendix D, to part 43, and was found to be in condition for safe operation.

Change right main tire.

Al Ken 7/1/07 183385503

Replaced nose tire & tubes. Al Ken 183385503

Checked timing of mag - replaced right landing light
with H3 55W with H3 100W

REMARKS

completed Vais nose gear leg modification

flat right main. Replaced tube.

MChun 183 38 5803

Right brake line fitting broke at firewall hose connection.

Replaced and bleed, right brake

Installed new compass card, non synon compass cal and instruct compass cal.

MChun 183 38 5803

coax connection loose on cone; repaired

MChun 183 38 5803

REMARKS

loosened nose wheel breakout 2 flats. McChen 183-38-5803

Added 1 qt oil was @ 5 1/2 qts

I certify that this aircraft has been inspected on 2/21/85
in accordance with the scope and detail of appendix
d to part 43 and was found to be in condition for
safe operation

Replaced left main tire/tube, greased bearing. McChen
183 385803

Installed new equipment for IFR flight

Synon OA serial 6269/9200

Synon battery pack 0208

DIVS GVA autopilot ~~0809~~ 0809 11-8000-020-001

GRT MFD-AS 1405, GARMAN audio panel GMA340 96284671

GRT AHS 1101, GARMAN 430WAS 23406586

GPS antenna 37572, Markedson antenna AV569, canAV-17

REMARKS

NAV antenna AV-126

Replaced oil pressure sender - new one from GRT
M. Chinn 183 38 5903
D. Decca

Weighted 347 nose, 514 left, 511 right - full fuel
M. Chinn

REMARKS

THE FOLLOWING ALTIMETER SYSTEM AND ALTITUDE REPORTING EQUIPMENT TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.411 iaw FAR 43 APPENDIX "E" HAVE BEEN PERFORMED.

AVIONICS PLACE FQ5R866M ROCKFORD IL

PARA (A) STATIC SYSTEM

DATE 11/5/08

PARA (B) ALTIMETER

PILOTS *ERT / Dynow* S/N 1101/6269

C.P.'s ALTE02110102 S/N ALTE02110102

TESTED TO 20K FT. DATE 11/5/08

PARA (C) INTEGRATED SYSTEM TEST

DATE 11/5/08 W.O.# 11863

SIGNED BY *J. Coffey / Liberman*

ATC TRANSPONDER TESTS AND INSPECTIONS AS REQUIRED BY FAR 91.413 iaw FAR 43 APPENDIX "F" HAVE BEEN PERFORMED.

DATE 11/5/08

AVIONICS PLACE FQ5R866M ROCKFORD IL

MODEL GTX327 S/N 83714078

SIGNED BY *J. Coffey / Liberman*

Date	From	To	Hours	Min.	Pilot
11/8					
3/14			370		
5/5/09			590		
5/9/09					

Total Forward

Total to Date

REMARKS

This aircraft meets 91.205 IFR equipment requirements.
This aircraft has been flown in simulated IFR
conditions and determined to be a stable IFR
platform. Allen Chan repairman 183 385803 11/8/08

added ants all tires. Installed heat shield left side
exhaust. Notical bubbling on exterior of cowling. Chan 183 385803

Upgraded HX software 2.0, now datalogging 3/09

Washed plane

Chan 183 385803

ALT TEST DATA PER FAR 91.411 law FAR 43, APP E
 AVIONICS PLACE-REPAIR STATION NO. FQ5R866M

CUSTOMER NAME: CHRIS CHECCA

N NO: N468AC DATE: NOV 05, 2008

W.O. NO: 11863 INSP. BY: F.J. J.O.H.

ALT S/N ALT E02110102 MODEL ALT 201NF-3N

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REMARKS

TABLE I		TABLE II	
ALT	TOL	TEST	TOL
-1000	20	CASE LEAK	100
0	20	HYSTERISIS	
500	20	1ST TEST 50%	75
1000	20	2ND TEST 40%	75
1500	25	AFTER EFFECT	30
2000	30		
3000	30		
4000	35		
6000	40		
8000	60		
10000	80		
12000	90		
14000	100		
16000	110		
18000	120		
20000	130		
22000	140		
25000	155		
30000	180		
35000	205		

TABLE III		TABLE IV	
ALT	TOL	HG	ALT
4000	35	4035	28.10
6000	40	6040	-1727
8000	60	8055	-1340
10000	80	10,060	-863
12000	90	12,060	-392
14000	100	14,080	0
16000	110	16,060	30.50
18000	120	18,060	30.90
20000	130	20,040	893
22000	140		974
25000	155		15
30000	180		
35000	205		

NEXT IFR
 CERTIFICATION
 DUE BY: 11/30/10

FAR 91.411 law FAR 43, APP E
AIR STATION NO. FQ5R866M

S CHECK

DATE: NOV. 05, 2008

INSP BY: F.J. J.H.

MODEL: GRAND RAPIDS

W.O. NO.:	11863	TABLE I	TABLE II	TABLE III	TABLE IV
ALT/S/N	1101	TABLE I	TABLE II	TABLE III	TABLE IV
ALT	TOL.	IND	TEST	TOL.	IND
-1000	20	-980	CASE LEAK	100	50
0	20	20	HYSTERISIS		
500	20	500	1ST TEST 50%	75	000
1000	20	1000	2ND TEST 40%	75	-5
1500	25	1505	AFTER EFFECT	30	0
2000	30	2000			
3000	30	3005			
4000	35	4020			
6000	40	6020			
8000	60	8015			
10000	80	10,000			
12000	90	12,040			
14000	100	14,040			
16000	110	16,015			
18000	120	18,000			
20000	130	20,020			
22000	140				
25000	155				
30000	180				
35000	205				

Total to Date

NEXT HR
CERTIFICATION
DUE BY:
11/30/10

Date	From	To	Hours	Min.	Pilot
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AVIONICS PLACE 5257 Falcon Rd. Rockford, IL 61109-2917 FQ5R866M
 LOG ID# 1114 22-May-2009 WO# 12210
 N468AC S/N 60573 HOME BUILT RV6A

Pg 1 / 1

Complied with Garmin Service Bulletin 0848 Rev.B for GNS-430w. updated Main software to v3.20 and GPS Software to v3.2.

THE AIRCRAFT/COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. LISTED ABOVE.

RELEASED BY Geoffrey Deberlein
 AVIONICS PLACE
 FAA APPROVED REPAIR STATION FQ5R866M.

AVIONICS PLACE 5257 Falcon Rd. Rockford, IL 61109-2917 FQ5R866M
 LOG ID# 1163 14-August-2009 WO# 12416
 N468AC S/N 60573 HOME BUILT RV6A

Pg 1 / 1

REPLACED MEMORY BATTERY INSIDE KMD150 S.B 27101708. UNIT RESET AND TESTED FOR PROPER LOCK ON AND OPERATION. UNIT INITIALLY HAD CORRUPT ALMANAC AND RESET TO 3D FIX.

THE AIRCRAFT/COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. LISTED ABOVE.

RELEASED BY Geoffrey Deberlein
 AVIONICS PLACE
 FAA APPROVED REPAIR STATION FQ5R866M.

REMARKS

AVIONICS PLACE 5257 Falcon Rd. Rockford, IL 61109-2917 FQ5R866M
LOG ID# 1164 14-August-2009 WO# 12416
N468AC S/N 60573 HOME BUILT RV6A

Pg 1 / 1

Complied with Garmin Service Bulletin 0919 Rev.A for GNS-430W.
Updated Main Software to v3.30. INSTALLED FMS IN AIRCRAFT.

THE AIRCRAFT/COMPONENT IDENTIFIED WAS REPAIRED AND INSPECTED IN ACCORDANCE WITH CURRENT REGULATIONS
OF THE FEDERAL AVIATION ADMINISTRATION AND IS APPROVED FOR RETURN TO SERVICE.

PERTINENT DETAILS OF THE REPAIR ARE ON FILE AT THIS REPAIR STATION UNDER W.O. LISTED ABOVE.

RELEASED BY Geoffrey Diberlen
AVIONICS PLACE
FAA APPROVED REPAIR STATION FQ5R866M.

Date	From	To	Hours	Min.	Pilot
7/20/09			640		
8/4/09			663		
8/15/09					
9/17/09			706		
14/19					
12/28/2009					

Total Forward

Total to Date

REMARKS

see engine log

I certify this aircraft has been inspected on 7/20/09 IAW
the scope and detail of appendix to part 43 and was found
to be in condition for safe operation. MChm 183 385803

Replaced right stroke pin supply and repaired right panel wiring.
MChm 183 385803

Replaced right main tire with new. MChm 183 385803

Adjusted rudder trim MChm 183 385803

Overhauled left master cylinder. MChm 183 385803

Installed revised autopilot REV 2.30, GR now date base 10.06.09
MChm 183 385803

Date	From	To	Hours	Min.	Pilot
11/9/09					
4/29/10			804		
6/04/10					
7/25			870		
8/13			850	873	
Total Forward					
Total to Date					

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REMARKS

TOTAL EHT - SAT. VOR ground check MTK +1°
 MChmn 183-53-5803

Oil & filter change, 7 qts Shell 20/50, added carb heat kit.
 Replaced left main MChmn 183-53-5803
 Oil filter. MChmn

I certify the aircraft has been inspected on 7/25/10 and
 the scope and detail of inspection is to part 43 and was
 found to be in condition for safe operation.
 MChmn

Replaced baffles, 90° bucket back left at oil cooler.
 Oil one cracked
 MChmn